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NVI 5268.2
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Arindam Roy, et al.

Art Unit 1625

Serial No. 10/795,790

Filed March 8, 2004

Confirmation No. 7703

For A PROCESS FOR ENZYMATICALLY RESOLVING AN ENANTIOMERIC
MIXTURE OF ALPHA-HYDROXY ACIDS

June 21, 2004

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INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and
in compliance with the duty of disclosure set forth in 37 C.F.R.


* 1.56, applicants submit the attached PTO/SB/08A for consideration
by the Patent and Trademark Office in the above-entitled
application and to be made of record therein. Applicants submit
herewith copies of the literature references.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Anthony R. Kinney".

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PTO/SB/08A INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) 				Complete if Known	
				Application Number	10/795,790
				Filing Date	March 8, 2004
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				First Named Inventor	Arindam Roy, et al.
				Group Art Unit	1625
				Examiner Name	To Be Assigned
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OTHER ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶	
	1	Sugawara, et al.; Efficient and Practical Synthesis of Both Enantiomers of 6-silyloxy-3-pyranone Derivatives; Tetrahedron: Asymmetry; The International Journal for the Rapid Publication of all Aspects of Asymmetry in Organic, Inorganic, Organometallic, Physical And Bioorganic Chemistry; November 2000; 4529-4535; Volume 11 No. 22		
	2	Miyazawa, et al.; Optical Resolution of Non-Protein Amino Acids by Lipase-Catalyzed Ester Hydrolysis; Biocatalysis and Biotransformation; 2000; pages 445-458; Vol. 17; Konan University, Japan		
	3	Xin, et al.; Improvement of the Enantioselectivity of Lipase-Catalyzed Naproxen Ester Hydrolysis in Organic Solvent; Enzyme and Microbial Technology Biotechnology Research and Reviews; February 2000; pages 137-141; Volume 26 Numbers 2-4		
	4	Miyazawa, et al.; Resolution of 2-Cyano-2-Methylalkanoic Acids Via Porcine Pancreatic Lipase-Catalyzed Enantioselective Ester Hydrolysis: Effect of the Alcohol Moiety of the Substrate Ester on Enantioselectivity; Biotechnology Letters; April 1999; pages 309-312; Volume 21 No. 4		
	5	Haeffner, et al.; Molecular Modelling of Lipase Catalysed Reactions. Prediction of Enantioselectivities; Chemical & Pharmaceutical Bulletin; May 1999; pages 591-600; Volume 47 No. 5		
	6	Angelis, et al.; Enantioselectivity and Diastereoselectivity in the Hydrolysis of Acylals and Structurally Related Esters of Secondary Alcohols with Candida Rugosa Lipase; Tetrahedron Letters: The International Journal for the Rapid Publication of Preliminary Communications in Organic Chemistry; 1998; pages 2823-2826		
	7	Löwendahl, et al.; Analysis of a Lipase-Catalyzed Kinetic Resolution by Chiral Normal-Phase Liquid Chromatography; BMC Biomedical Chromatography an International Journal; 1997; pages 289-295; Volume 11		

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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8	Serebryakov, et al.; Enantioselectivity of the PPL-Catalysed Hydrolysis of Racemic Esters: Some Cases Implying a Conformational Substrate Model; Mendeleev Communications Preliminary Accounts of a New work in Chemistry From Russia and Elsewhere; November 1996; pages 220-224; Number 6	
9	Bornemann, et al.; The Effects of Surfactants on Lipase-Catalysed Hydrolysis of Esters: Activities and Stereoselectivity; Biocatalysts; 1994; pages 191-221; Volume 11	
10	van Tol, et al.; Do Organic Solvents Affect the Catalytic Properties of Lipase? Intrinsic Kinetic Parameters of Lipases in Ester Hydrolysis and Formation in Various Organic Solvents; Biotechnology & Bioengineering; July 5, 1995; pages 71-81; Volume 47 Number 1	
11	Yang, et al.; A Comparison of Lipase-Catalyzed Ester Hydrolysis in Reverse Micelles, Organic Solvents, and Biphasic System; Biotechnology & Bioengineering; July 5, 1995; pages 60-70; Volume 47 Number 1	
12	Bojarski, et al.; Enantioselective Lipase-Catalyzed Ester Hydrolysis: Effects on Rates and Enantioselectivity from a Variation of the Ester Structure; Chirality The Pharmacological, Biological, and Chemical Consequences of Molecular Asymmetry; 1993; pages 154-158; Volume 5, Number 3	
13	Scilimati, et al.; Biocatalytic Resolution of (+)-Hydroxyalkanoic Esters. A Strategy for Enhancing the Enantiomeric Specificity of Lipase-Catalyzed Ester Hydrolysis; Tetrahedron Letters The International Journal for the Rapid Publication of Preliminary Communication in Organic Chemistry; 1988; pages 4927-2930; Volume 29 No. 39	
14	Wu, et al.; Enhancing the Enantioselectivity of Candida Lipase Catalyzed Ester Hydrolysis via Noncovalent Enzyme Modification; Journal of American Chemical Society; 1990; pages 1990-1995; Volume 112 No. 5	
15	Hult; A Kinetic Interpretation of Acids and Alcohols Influence on the Enantioselectivity in Enzyme Catalysed Resolutions; Microbial Reagents in Organic Synthesis; March 23-27, 1992; pages 289-298	
16	Rakels, et al.; Improvement of Enantioselective Enzymatic Ester Hydrolysis in Organic Solvents; Tetrahedron: Asymmetry The International Journal for Rapid Publication on all Aspects of Asymmetry in Organic, Inorganic, Organometallic, Physical and Bio-organic Chemistry; January 1994; pages 93-100; Volume 5 No. 1	

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	17	Sih, et al.; Differences in Reactivity and Enantioselectivity in Lipase Reactions with Carboxylic Esters and Alcohols Bearing the Same Steriogenic Center; Tetrahedron: Asymmetry The International Journal for Rapid Publication on all Aspects of Asymmetry in Organic, Inorganic, Organometallic, Physical and Bio-organic Chemistry; February 1995; pages 357-360; Volume 6 No. 2	
	18	Ahmed, et al.; Enantioselectivity of Candida Rugosa Lipase Toward Carboxylic Acids: A Predictive Rule From Substrate Mapping and X-Ray Crystallography; Biocatalysis; 1994; pages 209-225; Volume 9	
	19	Book of Abstracts 211th American Chemical Society National Meeting; New Orleans March 24-28, 1996	
	20	Zuegg, et al.; Selectivity of Lipases: Conformational Analysis of Suggested Intermediates in Ester Hydrolysis of Chiral Primary and Secondary Alcohols; Journal of Molecular Catalysis B: Enzymatic; June 10, 1997; pages 83-98	
	21	Löwendahl, et al.; Steric Requirements for the Active Site of a Lipase from Candida Rugosa Studied by the Use of a Sulfinyl Group as a Chiral Probe; Biocatalysis and Biotransformation; Vol. 16; 1998; pages 163-180	
	22	Bellezza, et al.; The Importance of Ester and Alkoxy Type Functionalities for the Chemo- and Enantio-Recognition of Substrates by Hydrolysis with Candida Rugosa Lipase; Perkin Acta Chemica Scandinavica; The Royal Society of Chemistry; 2000; pages 4439-4444	

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